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typically includes a "user friendly" data acquisition software package that transforms information into easy-to-read formats.

Rewrite page 11, paragraph [0045]:

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[0045] TABLE 2 shows multiple daily sampling events. The DAY column indicates days after PRB installation. Accuracy of the in-well (in situ) sampling was confirmed by controlled laboratory measurements. In TABLE 2, the high dissolved oxygen (DO) values and the more positive oxidation-reduction potential (ORP) values measured by the low-flow purge method were in error, as a groundwater cannot be highly reducing ( $<-100$  mv ORP) and at the same time be characterized by such high concentrations of dissolved oxygen ( $\sim 3.5$  mg/L). This type of contaminated data is not uncommon when low-flow purge methods are used. The EXAMPLE illustrates the sampling accuracy advantage of in-well measurements according to the invention.

IN THE CLAIMS:

Please rewrite claims 1, 44, 57 and 66 as follows:

1. A method, comprising:

conducting a permeable-reactive barrier (PRB) treatment of a contaminated aqueous medium;

in-well monitoring by sensing effectiveness of the PRB treatment to generate a signal representing a characteristic of the sensed effectiveness; and

in-well transmitting the signal by a wireless communication to a remote collector or monitor.

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44. A system, comprising:

a PRB zone to treat a contaminated groundwater;

an in-well sensor located within a gradient of the contaminated groundwater or within the PRB zone to sense a characteristic of the groundwater; and

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a transmitter associated with the sensor in well to wirelessly transmit a signal concerning the characteristic.

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57. The system of claim 56, further comprising a collector to receive the signal from the transmitter.

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66. A system, comprising:

a PRB zone to treat a contaminated groundwater; and

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a sensor located in a monitoring well substantially along a PRB zone transect of flow of the contaminated groundwater from an up-gradient location, across the PRB zone to a down-gradient location;

wherein the transect of flow is defined by a  $\pm 6$  feet wide horizontal plane that transcribes at least one up-stream monitoring well and at least one down-stream well at a level that is  $\pm 1$  feet of an open screen interval mid point of each well.

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✓ Cancel claims 36 to 43 without prejudice or disclaimer.